

VALID

Pat. No. 05589281 - 4
Issue Date: 05/06/02

Group ID: D
User ID: Tmford

Page 1
KS: 2,959

Warning [Pages Of US References:]

page 5 has no references

Warning [Pages Of Foreign References:]

page 1 has no references

page 2 has no references

page 3 has no references

Warning [Pages Of Other References:]

page 1 has no references

page 2 has no references

page 3 has no references

page 4 has no references

DD

9/10/nam
E

PTOL85b INFO

SERIAL NUMBER FILING DATE

09/828,066 04/05/01

ASSIGNEE DATA PRESENT DATE FEE PAID

Yes 08/12/02

EMAIL ADDRESS

=====

ATTORNEYS

Type: Firm/First: Middle: Last:

Firm Hogan & Hartson, LLP

=====

ASSIGNEES

Code: Firm/First: Middle: Last:

02 Sirf Technology, Inc.

City: State: Country:

San Jose CA

Text:

Code: Firm/First: Middle: Last:

03 Matsushita Electric Works, Ltd.

City: State: Country:

Osaka JPX

Text:

=====

REFERENCES (Page 5) SERIAL NUMBER: 09/828,066

FORM 1449

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
0 957 370 A1	11/1999	EPX	6015	5/14
WO 99 47943 A	09/1999	EPX		
WO 99 44073 A	09/1999	EPX		
WO 99 66342 A	12/1999	EPX		

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

+130 PCT Search Report dated Apr. 24 2002; Int.+3 l +0 Application No. ←
PCT/US 01/18373.

=====

***** End of edited forms *****

CHECK LIST

Rule 47 Continuing Data PCT Disclaimer

No No No No

Microfiche Appendix CPA tag

No NO

Foreign Priority Claimed: No

Acknowledged: No

State Code: Country Code: JPX

Text Endorsement: 09828066.040501

=====

JACKET

<u>SERIAL NUMBER</u>	<u>FILING DATE</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>GAU</u>
09/828,066	04/05/01	342	357.09	3662

FOREIGN PRIORITY

Country Document Number Date

DISCLAIMER

/ /

TITLE

GPS-based positioning system for mobile GPS terminals

MICROFICHE APPENDIX

ASSISTANT EXAMINER:

First: Middle: Last:

PRIMARY EXAMINER:

First: Middle: Last:

Dao Phan

CLAIMS ALLOWED

Total Print

20 1

DRAWINGS

Sheets **Figures** **Print**

6 6 Y

BLUE SLIP INFORMATION

<u>SERIAL NUMBER</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>GAU</u>
09/828,066	342	357.09	3662

INDEP. CLAIMS

TOTAL CLAIMS

1 20

BLUE SLIP (Page 1)

INTERNATIONAL CLASSIFICATION

Class SubClass

H04B 7/185

G01S 5/02

CROSS-REFERENCES

Class SubClass

342 357.06

TERM EXTENSION

0

FIELD OF SEARCH

Class SubClass

342 357.06;357.09;357.12

701 213; 215

=====

PTOL85b INFO

SERIAL NUMBER **FILING DATE**

09/828,066 04/05/01

ASSIGNEE DATA PRESENT **DATE FEE PAID**

Yes 08/12/02

EMAIL ADDRESS

=====

ATTORNEYS

Type: **Firm/First:** **Middle:** **Last:**

Firm Hogan & Hartson, LLP

=====

ASSIGNEES

Code: **Firm/First:** **Middle:** **Last:**

02 Sirf Technology, Inc.

City: **State: Country:**

San Jose CA

Text:

Code: **Firm/First:** **Middle:** **Last:**

03 Matsushita Electric Works, Ltd.

City: **State: Country:**

Osaka JPX

Text:

=====

OATH

INVENTOR NAME

<u>First:</u>	<u>Middle:</u>	<u>Last:</u>	<u>Signed:</u>
Ikuo		Tsujimoto	Yes
<u>City:</u>	Nara		

INVENTOR NAME

<u>First:</u>	<u>Middle:</u>	<u>Last:</u>	<u>Signed:</u>
Junichi		Suzuki	Yes
<u>City:</u>	Osaka, both of		

State: ZIP Code: Country: JPX Foreign ZIP:

INVENTOR NAME

<u>First:</u>	<u>Middle:</u>	<u>Last:</u>	<u>Signed:</u>
Chiayee	Steve	Chang	Yes
<u>City:</u>	San Jose		

State: CA ZIP Code: Country: Foreign ZIP:

INVENTOR NAME

<u>First:</u>	<u>Middle:</u>	<u>Last:</u>	<u>Signed:</u>
Lionel	Jacques	Garin	Yes
<u>City:</u>	Palo Alto		

State: CA ZIP Code: Country: Foreign ZIP:

INVENTOR NAME

<u>First:</u>	<u>Middle:</u>	<u>Last:</u>	<u>Signed:</u>
Ashutosh		Pande	Yes
<u>City:</u>	Milpitas		

State: CA ZIP Code: Country: Foreign ZIP:

=====

PCT INFO

=====

CONTINUING DATA (Page 1)

<u>LINE</u>	<u>CODE</u>	<u>SERIAL NUMBER</u>	<u>FILING DATE</u>	<u>STATUS</u>	<u>DOCUMENT NO.</u>	<u>ISSUE DATE</u>
-------------	-------------	----------------------	--------------------	---------------	---------------------	-------------------

=====

REFERENCES (Page 1) SERIAL NUMBER: 09/828,066
FORM 892

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
5,546,411	08/1996	Leitch et al.	371	5.5
*6,125,314	09/2000	Graf et al.	701	53
No issue date available.				
*6,330,452	12/2001	Fattouche et al.	455	456
No issue date available.				

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

=====

REFERENCES (Page 2) SERIAL NUMBER: 09/828,066
FORM 1449

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
4,426,712	01/1984	Gorski-Popiel		
4,445,118	04/1984	Taylor et al.		
4,463,357	07/1984	MacDoran		
4,578,678	03/1986	Hurd		
4,667,203	05/1987	Counselman, III		
4,701,934	10/1987	Jasper		

4,754,465	06/1988 Trimble
4,785,463	11/1988 Janc et al.
4,809,005	02/1989 Counselman, III
4,821,294	04/1989 Thomas, Jr.
4,890,233	12/1989 Ando et al.
4,894,662	01/1990 Counselman
4,998,111	03/1991 Ma et al.
5,014,066	05/1991 Counselman, III
5,036,329	07/1991 Ando
5,043,736	08/1991 Darnell et al.
5,108,334	04/1992 Eschenbach et al.
5,202,829	04/1993 Geier
5,225,842	07/1993 Brown et al.
5,293,170	03/1994 Lorenz et al.
5,311,195	05/1994 Mathis et al.
5,323,164	06/1994 Endo
5,343,209	08/1994 Sennott et al.
5,345,244	09/1994 Gildea et al.
5,347,536	09/1994 Meehan
5,379,224	01/1995 Brown et al.
5,402,347	03/1995 McBurney et al.
5,416,712	05/1995 Geier et al.
5,420,593	05/1995 Niles
5,440,313	08/1995 Osterdock et al.

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

REFERENCES (Page 3) SERIAL NUMBER: 09/828,066
FORM 1449

<u>U.S. REFERENCES</u>	<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
	5,450,344	09/1995	Woo et al.		
	5,504,684	04/1996	Lau et al.		
	5,592,173	01/1997	Lau et al.		
	5,625,668	04/1997	Loomis et al.		
	5,663,734	09/1997	Krasner		
	5,663,735	09/1997	Eshenbach		
	5,781,156	07/1998	Krasner		
	5,786,789	07/1998	Janky		
	5,812,087	09/1998	Krasner		
	5,825,327	10/1998	Krasner		
	5,828,694	10/1998	Schipper		
	5,831,574	11/1998	Krasner		
	5,841,396	11/1998	Krasner		
	5,845,203	12/1998	LaDue		
	5,854,605	12/1998	Gildea		
	5,874,914	02/1999	Krasner		
	5,877,724	03/1999	Davis		
	5,877,725	03/1999	Kalafus		
	5,883,594	03/1999	Lau		
	5,884,214	03/1999	Krasner		
	5,889,474	03/1999	LaDue		

5,903,654	05/1999 Milton et al.
5,907,809	05/1999 Molnar et al.
5,917,444	06/1999 Loomis et la.
5,920,283	07/1999 Shaheen et al.
5,923,703	07/1999 Pon et al.
5,926,131	07/1999 Sakumoto et al.
5,936,572	08/1999 Loomis et al.
5,943,363	08/1999 Hanson et al.
5,945,944	08/1999 Krasner
5,963,582	10/1999 Stansell, Jr.
5,977,909	11/1999 Harrison et al.
5,982,324	11/1999 Watters et al.

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

=====

REFERENCES (Page 4) SERIAL NUMBER: 09/828,066

FORM 1449

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
5,987,016	11/1999	He		
5,999,124	12/1999	Sheynblat		
6,002,362	12/1999	Gudat		
6,002,363	12/1999	Krasner		
6,009,551	12/1999	Sheynblat		
*6,016,119	01/2000	Krasner		
No issue date available.				

*6,041,222 02/2000 Horton et al.
No issue date available.

*6,047,017 04/2000 Cahn et al.
No issue date available.

*6,052,081 04/2000 Krasner
No issue date available.

*6,061,018 05/2000 Sheynblat
No issue date available.

*6,064,336 05/2000 Krasner
No issue date available.

*6,104,338 08/2000 Krasner
No issue date available.

*6,104,340 08/2000 Krasner
No issue date available.

*6,107,960 08/2000 Krasner
No issue date available.

*6,111,540 08/2000 Krasner
No issue date available.

*6,131,067 10/2000 Girerd et al.
No issue date available.

*6,133,871 10/2000 Krasner
No issue date available.

*6,133,873 10/2000 Krasner
No issue date available.

*6,133,874 10/2000 Krasner
No issue date available.

*6,150,980 11/2000 Krasner
No issue date available.

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
58-105632	06/1983	JPX		
2115195	01/1983	GBX		
7-36035	05/1986	JPX		

WO 90/11652 10/1990 EPX
0511741 11/1992 EPX
4-326079 11/1992 JPX

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

REFERENCES (Page 5) SERIAL NUMBER: 09/828,066
FORM 1449

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

0 957 370 A1 11/1999 EPX
WO 99 47943 A 09/1999 EPX
WO 99 44073 A 09/1999 EPX
WO 99 66342 A 12/1999 EPX

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

PCT - Search Report dated 4/17/2002; Int.+3 l +0 Application No.

PCT/US 01/18373.
